

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P192555

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42776 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

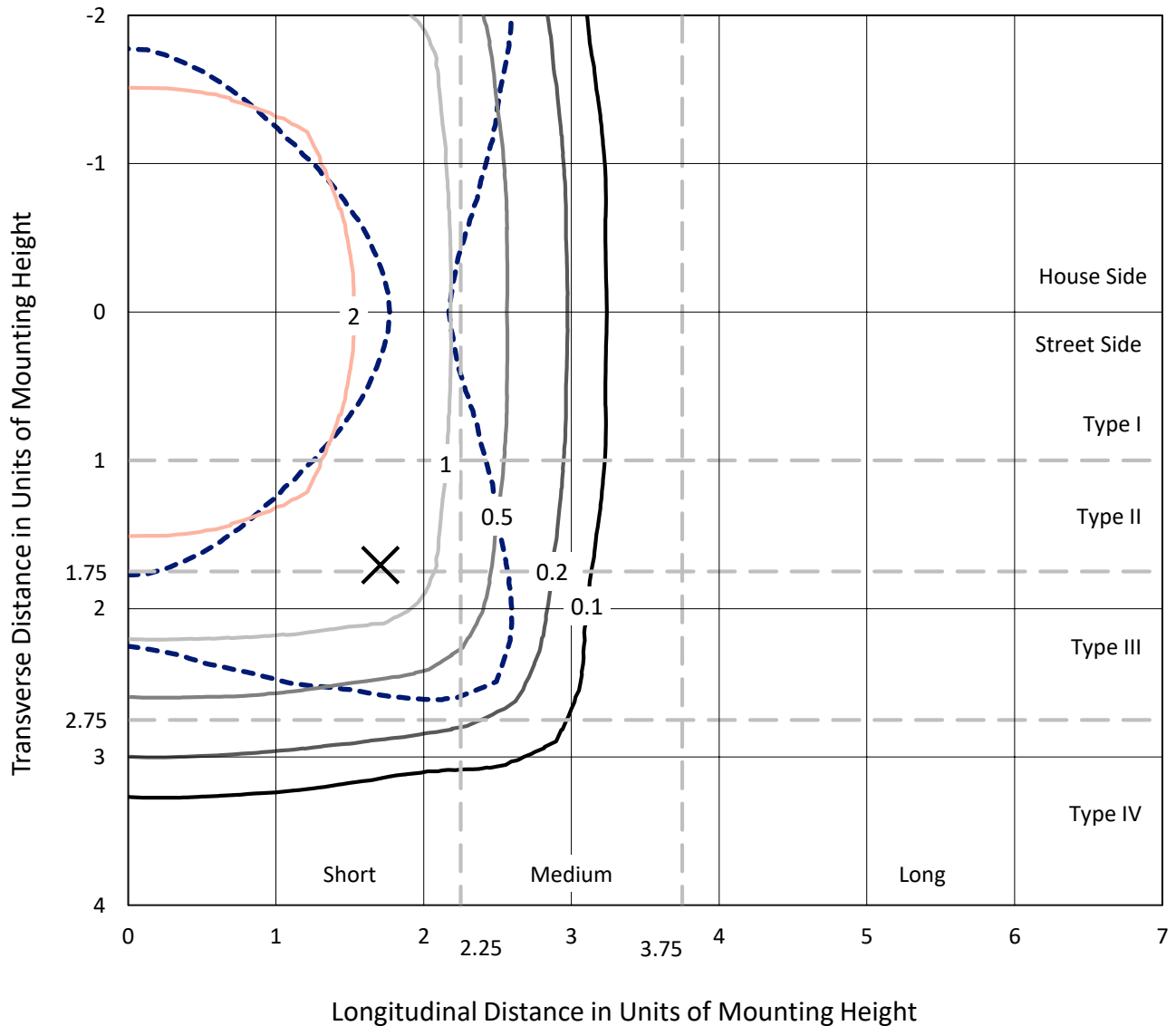
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

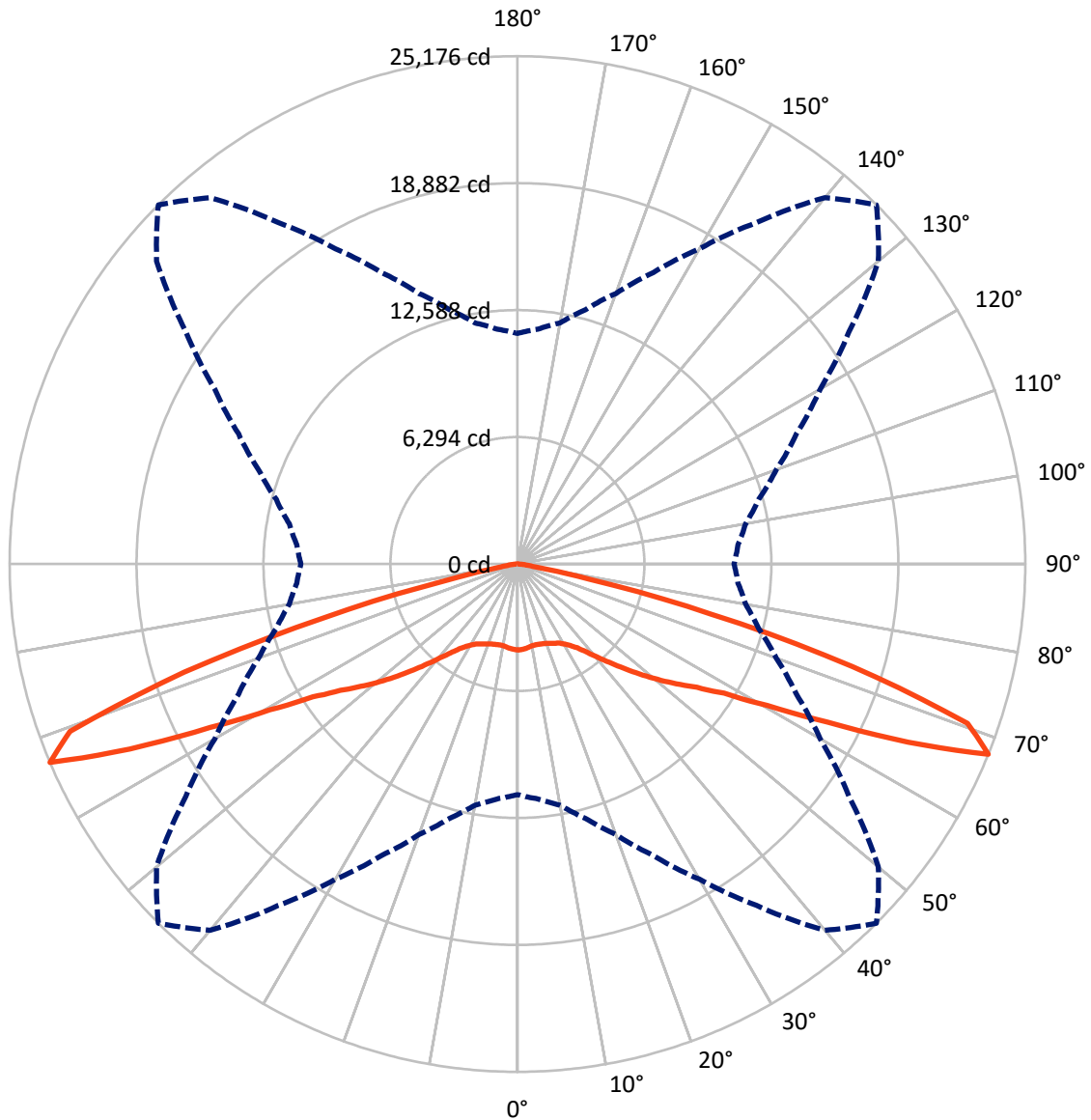
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21388.0	0.0	21388.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21388.0	0.0	21388.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42776.0	0.0	42776.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	0.9
10°-20°	1157.8	2.7
20°-30°	1968.2	4.6
30°-40°	3217.4	7.5
40°-50°	5743.6	13.4
50°-60°	9683.8	22.6
60°-70°	15027.9	35.1
70°-80°	5280.1	12.3
80°-90°	298.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42776.0	100.0
0°-180°	42776.0	100.0



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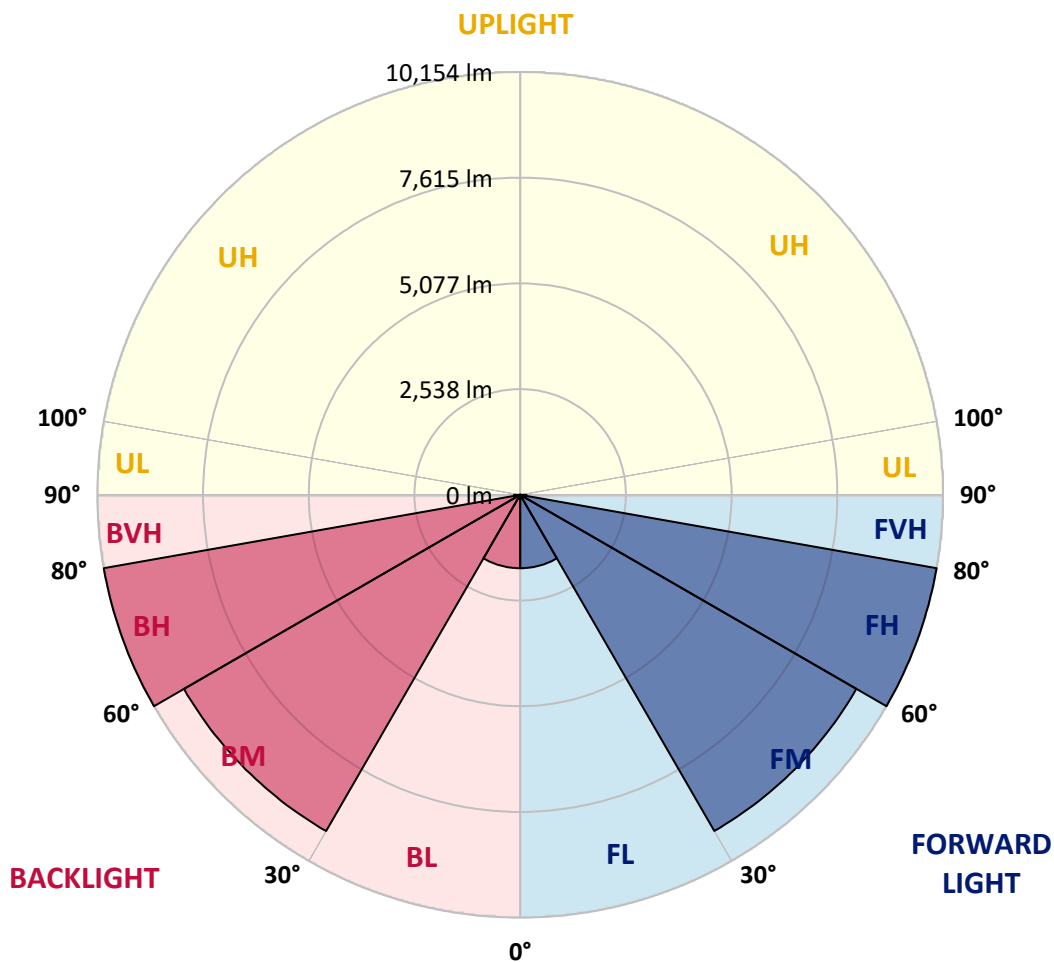
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.5	4.1			
FM	(30°-60°)	9322.4	21.8			
FH	(60°-80°)	10154.0	23.7			G4/12000
FVH	(80°-90°)	149.2	0.3			G2/225
BL	(0°-30°)	1762.5	4.1	B3/2500		
BM	(30°-60°)	9322.4	21.8	B5		
BH	(60°-80°)	10154.0	23.7	B5		G4/12000
BVH	(80°-90°)	149.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9
2.5°	4247.1	4251.1	4251.1	4251.1	4249.1	4249.1	4245.2	4249.1	4247.1	4241.2	4243.2
5°	4211.7	4215.7	4215.7	4213.7	4219.6	4217.6	4211.7	4215.7	4213.7	4209.8	4211.7
7.5°	4160.5	4166.4	4166.4	4164.4	4170.3	4168.3	4164.4	4166.4	4166.4	4160.5	4160.5
10°	4103.4	4107.4	4107.4	4105.4	4115.2	4115.2	4113.3	4119.2	4121.2	4115.2	4111.3
12.5°	4050.3	4056.2	4056.2	4064.1	4074.0	4077.9	4087.7	4095.6	4103.4	4101.5	4093.6
15°	4018.9	4022.8	4030.7	4040.5	4056.2	4070.0	4085.7	4103.4	4119.2	4123.1	4111.3
17.5°	3999.2	4005.1	4016.9	4030.7	4052.3	4075.9	4099.5	4123.1	4144.8	4152.6	4138.8
20°	3993.3	3997.2	4009.0	4032.6	4062.2	4097.5	4131.0	4158.5	4188.0	4197.8	4188.0
22.5°	4005.1	4013.0	4026.7	4054.3	4093.6	4138.8	4178.2	4215.7	4253.0	4270.7	4257.0
25°	4058.2	4066.1	4083.8	4119.2	4162.4	4209.8	4255.0	4298.3	4331.7	4349.4	4339.6
27.5°	4156.5	4166.4	4188.0	4223.5	4270.7	4321.9	4371.0	4406.4	4434.0	4439.9	4428.1
30°	4304.2	4325.8	4351.4	4390.7	4445.8	4489.0	4538.2	4569.7	4603.1	4603.1	4593.3
32.5°	4534.3	4555.9	4583.4	4620.8	4664.2	4711.4	4754.6	4782.2	4817.6	4819.5	4795.9
35°	4878.5	4888.4	4912.0	4935.6	4974.9	5016.2	5053.6	5071.3	5100.9	5102.9	5081.1
37.5°	5333.0	5334.9	5350.7	5358.5	5393.9	5439.2	5474.6	5486.4	5513.9	5510.0	5488.3
40°	5862.1	5871.9	5877.8	5889.6	5927.0	5970.3	6007.7	6013.6	6043.1	6037.2	6009.7
42.5°	6473.9	6477.9	6511.3	6529.0	6564.4	6586.0	6633.2	6639.1	6674.5	6658.8	6627.3
45°	7160.5	7195.9	7227.3	7262.7	7300.0	7325.8	7363.1	7355.3	7378.9	7355.3	7337.6
47.5°	7882.4	7907.9	7978.7	8033.9	8094.8	8116.5	8169.6	8146.0	8169.6	8136.1	8130.2
50°	8677.2	8722.3	8783.4	8846.2	8911.1	8946.5	9015.4	8985.9	9017.3	8985.9	8968.2
52.5°	9460.0	9471.8	9605.6	9698.1	9788.5	9829.8	9871.1	9857.4	9859.3	9857.4	9839.7
55°	10203.6	10231.1	10364.9	10490.8	10648.2	10764.2	10835.0	10827.1	10809.4	10791.7	10762.2
57.5°	11041.6	11069.2	11222.6	11378.0	11557.0	11722.2	11865.9	12013.4	12070.4	12086.1	12021.2
60°	12174.6	12172.7	12377.3	12566.1	12821.9	13067.7	13382.5	13703.2	14071.1	14242.2	14016.0
62.5°	13327.5	13374.7	13669.8	14004.2	14531.4	15044.8	15625.0	16195.6	16777.9	17251.9	16748.4
65°	13189.8	13370.7	13809.4	14566.8	15540.5	16697.2	17948.3	19272.2	20468.2	21290.5	20367.9
67.5°	11431.1	11688.8	12135.3	13055.9	14273.6	15941.8	18042.7	20661.0	23704.3	25175.6	23352.1
70°	8285.6	8576.8	9044.9	9943.9	11149.8	12735.4	15017.2	18160.7	22189.5	23672.6	21664.3
72.5°	4123.1	4280.6	4569.7	5142.2	6054.9	7341.4	9410.8	12432.4	15996.8	17358.1	15522.8
75°	1400.6	1473.4	1522.5	1709.5	1998.7	2504.2	3533.0	5435.2	8291.5	9940.0	8173.4
77.5°	808.5	810.4	843.9	877.4	926.5	981.5	1119.4	1469.4	2541.6	3609.7	2630.1
80°	523.3	521.2	548.8	574.3	607.8	635.4	643.2	680.6	784.9	930.5	832.1
82.5°	271.5	305.0	365.9	399.4	462.2	474.0	458.4	444.5	470.2	487.9	499.7
85°	149.4	129.8	194.7	251.9	279.3	283.3	283.3	267.5	277.4	271.5	295.1
87.5°	68.9	63.0	76.7	123.9	131.7	112.1	118.0	104.3	74.8	72.7	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9	4262.9
2.5°	4243.2	4245.2	4245.2	4251.1	4253.0	4257.0	4260.9	4262.9
5°	4209.8	4215.7	4211.7	4217.6	4217.6	4221.6	4221.6	4223.5
7.5°	4160.5	4166.4	4166.4	4166.4	4164.4	4170.3	4170.3	4170.3
10°	4109.3	4113.3	4111.3	4107.4	4103.4	4109.3	4107.4	4105.4
12.5°	4093.6	4083.8	4075.9	4072.0	4064.1	4066.1	4060.2	4060.2
15°	4103.4	4085.7	4072.0	4066.1	4058.2	4054.3	4050.3	4052.3
17.5°	4129.0	4107.4	4089.7	4079.8	4070.0	4064.1	4056.2	4058.2
20°	4174.2	4148.7	4123.1	4103.4	4085.7	4075.9	4070.0	4068.0
22.5°	4241.2	4203.8	4166.4	4136.9	4113.3	4099.5	4093.6	4089.7
25°	4317.9	4276.6	4233.4	4199.8	4176.2	4158.5	4146.7	4146.7
27.5°	4414.3	4380.9	4341.5	4302.2	4280.6	4262.9	4255.0	4251.1
30°	4575.6	4544.1	4512.6	4475.3	4447.7	4430.0	4416.3	4404.5
32.5°	4782.2	4756.6	4731.0	4703.5	4677.9	4654.3	4632.6	4622.8
35°	5073.2	5053.6	5035.9	5004.4	4994.6	4980.8	4969.0	4959.2
37.5°	5474.6	5466.7	5466.7	5433.3	5425.4	5419.5	5407.7	5409.7
40°	6001.8	6009.7	5999.9	5988.1	5982.2	5966.3	5966.3	5980.1
42.5°	6625.4	6631.3	6652.9	6633.2	6654.9	6635.2	6623.4	6633.2
45°	7349.4	7370.9	7414.3	7394.5	7408.4	7374.9	7333.6	7335.5
47.5°	8161.6	8181.4	8199.2	8185.2	8187.3	8132.1	8077.1	8063.4
50°	9005.5	9013.5	9023.2	9003.6	9007.6	8946.5	8883.7	8885.6
52.5°	9839.7	9877.0	9916.4	9863.3	9851.5	9782.6	9694.1	9658.7
55°	10793.7	10846.8	10801.6	10709.1	10616.7	10524.3	10408.1	10388.5
57.5°	11970.1	11879.6	11737.9	11562.9	11435.1	11305.3	11187.2	11138.0
60°	13606.8	13266.5	13010.7	12751.1	12587.8	12428.5	12273.1	12249.5
62.5°	15920.1	15332.1	14822.4	14285.4	13846.8	13504.5	13231.1	13154.4
65°	18819.7	17428.9	16223.2	15097.9	14120.2	13382.5	12918.3	12713.7
67.5°	20066.9	17320.8	15253.2	13656.0	12377.3	11484.2	10982.6	10732.7
70°	17633.6	14364.1	12115.6	10516.4	9351.8	8399.8	7945.4	7677.7
72.5°	12131.4	9137.5	7225.4	5897.5	4967.0	4170.3	3855.6	3832.0
75°	5447.0	3607.7	2486.5	1916.0	1613.1	1402.6	1337.7	1288.5
77.5°	1524.5	1127.2	1005.1	940.2	877.4	804.5	777.1	783.0
80°	741.7	700.4	672.8	631.4	574.3	513.4	485.8	497.6
82.5°	491.7	485.8	503.5	474.0	391.4	332.4	279.3	255.7
85°	299.1	302.9	308.8	310.9	263.7	184.8	125.8	141.6
87.5°	118.0	135.7	147.5	153.4	143.5	88.5	70.8	72.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)